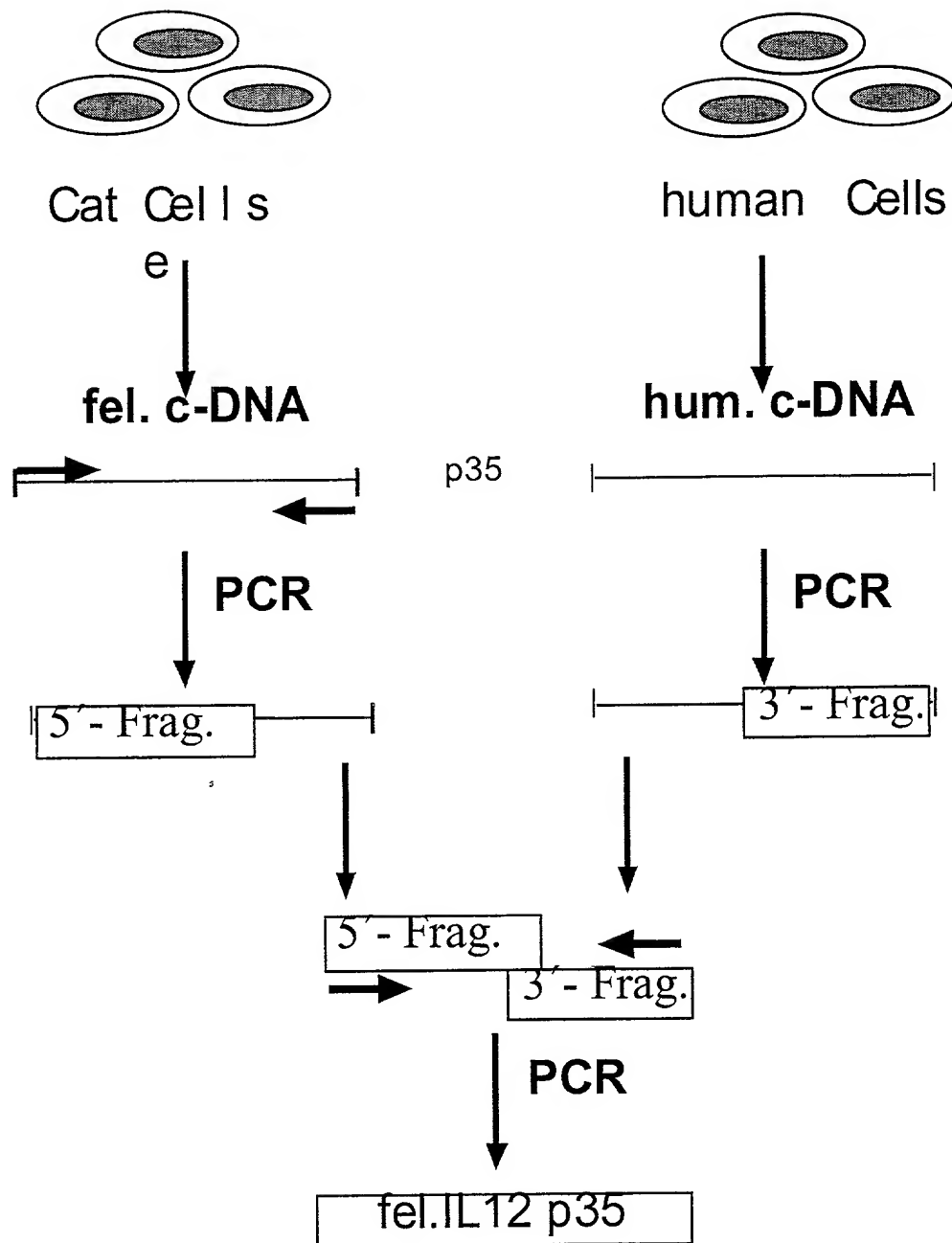


Fig. 1



2004157-010802

pG-hIL12p
fil12p35a
pMOL-fIL1
f12p35-l-
fIL12-p35

ATGTGTCAGCGCGCAGCCTCCTCCTTGTCGC
 " " " " C " GC " " " TG " " " " " " " " " AA "

| | | | |
|-----------|------|--------------------------------------------------------------|----------------------------------------|
| pG-hIL12p | 3179 | TACCCTGGTCCT | CCTGGACCACTCAGTTTGGCCAGAAACCTCCCCGTGGC |
| fil12p35a | 33 | C"T" | "G""ACAC" |
| pMOL-fIL1 | 3100 | GTTAAACCA | "G""ACAC" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3230 | CACTCCAGACCCAGGAATGTTCCCATGCCTTCACCACTCCC | AAAACCTGCTGAGGGCCGT |
| fil12p35a | 93 | "A""AG" | "AG""CA""C""A""A" |
| pMOL-fIL1 | 3139 | "A""AG" | "AG""CA""C""A""A" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3290 | CAGCAACATGCTCCAGAAGGCCAGACAAACTCTAGAATTTTACCCTTGCACTTCTGAAGA | |
| fil12p35a | 153 | "C""T" | "C""C""C""C" |
| pMOL-fIL1 | 3199 | "C""T" | "C""C""C""C" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3350 | GATTGATCATGAAGATATCACAAAAGATAAAACCAGCACAGTGGAGGCCTGTTTACCATT | |
| fil12p35a | 213 | | "C""C""C""C" |
| pMOL-fIL1 | 3259 | | "C""C""C""C" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3410 | GGAATTAACCAAGAATGAGAGTTGCCTAAATTCAGAGAGACGTCTTTTATACTAATGG | |
| fil12p35a | 273 | "T" | "GGC""TC""C"G""C""C" |
| pMOL-fIL1 | 3319 | "G""T" | "GGC""TC""C"G""C""C" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3470 | GAGTTGCCTGGCCTCCAGAAAGACCTCTTTTATGATGGCCCTGTGCCTTAGTAGTATTTA | |
| fil12p35a | 333 | | "C"A""C""C""C""C" |
| pMOL-fIL1 | 3379 | "TG" | "C"A""C""C""C""C" |
| f12p35-l- | | | |
| fIL12-p35 | | | |
| pG-hIL12p | 3530 | TGAAGACTTGAAGATGTACCAGGTGGAGTTCAAGACCATGAATGCAAAACTTCTGATGGA | |
| fil12p35a | 393 | "G" | "G""GT"A""C""C" |
| pMOL-fIL1 | 3439 | "G" | "G""GT"A""C""C" |
| f12p35-l- | | | |
| fIL12-p35 | | | |

Fig. 2 (Cont'd)

Multiple Alignment DNA SEQUENCE

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pG-hIL12p 3590 TCCTAAGAGGCAGATCTTTCTAGATCAAAACATGCTGGCAGTTATTGATGAGCTGATGCA
fil12p35a 453 """"""A""""""""""""""G""""""""""""""A""C""""""""""""T"A""
pMOL-fIL1 3499 """"""A""""""""""""""G""""""""""""""A""C""""""""""""
fil2p35-l- 1 ..... """"A""C""""""""""""T"A""
fil12-p35 .....

pG-hIL12p 3650 GGCCCTGAATTTCAACAGTGAGACTGTGCCACAAAAATCCTCCCTTGAAGAACCGGATTT
fil12p35a 513 """"""""G""""""""T""""""""G""C""""""T"G""""""""""
pMOL-fIL1 3559 """"""""""T""""""""G""C""""""""""
fil2p35-l- 29 """"""""G""""""""T""""""""G""C"""""" .....
fil12-p35 .....

pG-hIL12p 3710 TTATAAAACTAAAATCAAGCTCTGCATACTTCTTCATGCTTTTCAAGATACGGGCAGTGAC
fil12p35a 573 """"""""""T""T""""""
pMOL-fIL1 3619 """"""""""C""T""""""
fil2p35-l- .....
fil12-p35 76 ..... """"""""C""T""""""

pG-hIL12p 3770 TATTGATAGAGTGATGAGCTATCTGAATGCTTCCTAAGAGCTCATAATCAGCCATACCAC
fil12p35a 633 C""CA""""A""""""""""T"""""""" .....
pMOL-fIL1 3679 C""CA""""A""""""""""G""""""""""
fil2p35-l- .....
fil12-p35 54 C""CA""""A""""""""""G""""""TG"GAACT"TC.....

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Fig. 3

Schematic view of pCI-fil 12 (pCI-neo, Promega)

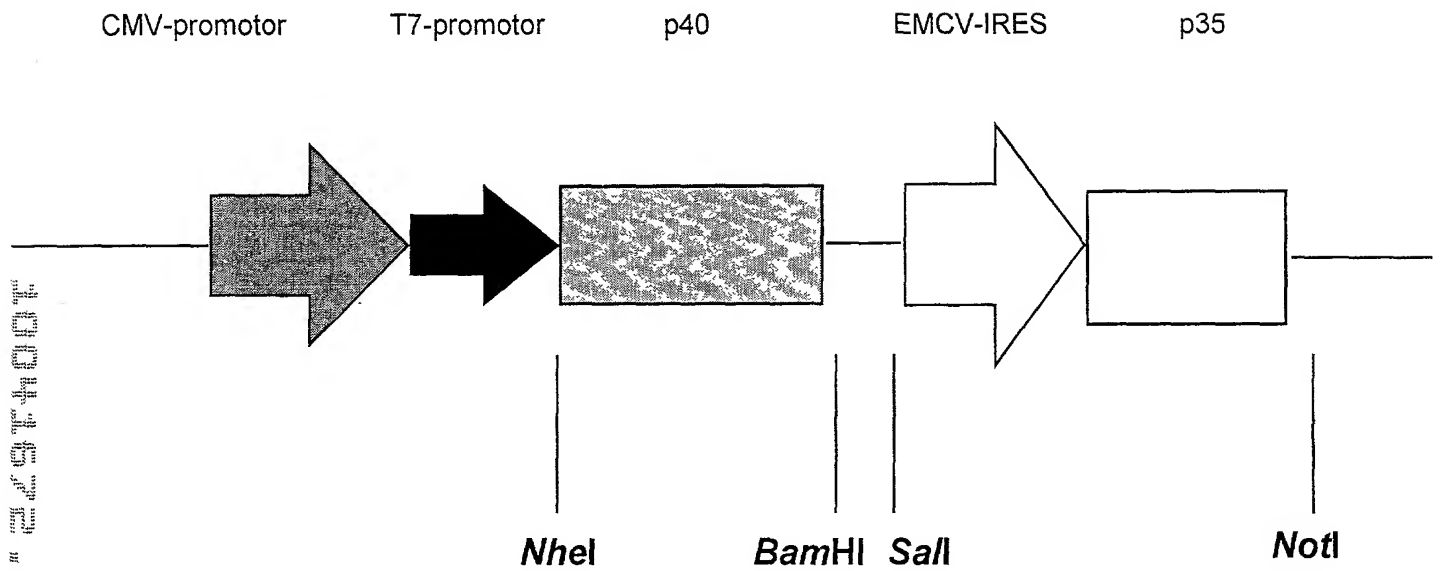


Fig. 4

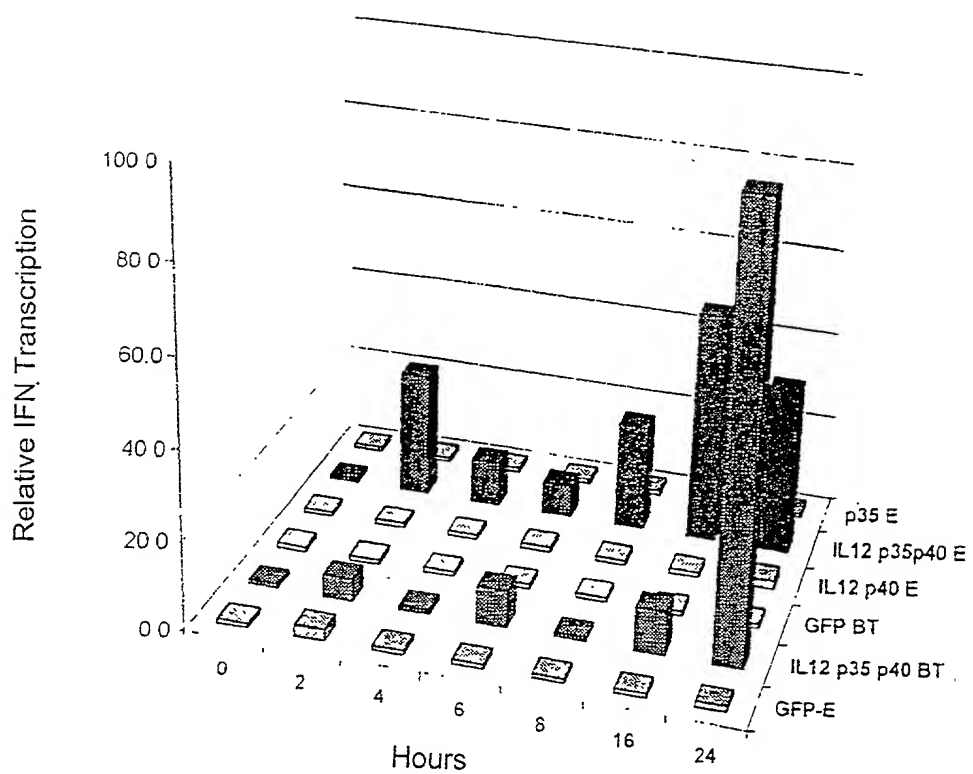


Fig. 5

